

**Claims Amendments:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A power source, comprising:  
first and second batteries; and  
a power management module configured to operate each of the first and second batteries in a pulse current discharge mode while supplying continuous current to a load when no voltage differential exists between the first and second batteries.
2. (Original) The power source of claim 1 wherein the power management module comprises a switch control module, and a switch configured to intermittently couple the first and second batteries to the load under control of the switch control module.
3. (Original) The power source of claim 2 wherein the switch comprises a first switch configured to intermittently couple the first battery to the load under control of the switch control module, and a second switch configured to intermittently couple the second battery to the load under control of the switch control module.
4. (Original) The power source of claim 3 wherein the first and second switches each comprises a field effect transistor.
5. (Original) The power source of claim 3 wherein the power management module is further configured to measure the current supplied to the load, the switch control module being further configured to control the switch as a function of the measured current.
6. (Original) The power source of claim 5 wherein the switch control module is further configured to control the switch such that the first and second batteries are continuously coupled to the load if the measured current is below a threshold
7. (Original) The power source of claim 5 wherein the switch control module is further configured to control the switch such that each of the first and second batteries are intermittently coupled to the load if the measured current reaches a threshold for a period of time.

8. (Original) The power source of claim 3 wherein the switch control module is further configured to control the switch such that the first battery is coupled to the load before removing the second battery from the load.

9. (Previously Amended) The power source of claim 2 wherein the switch control module is further configured to control the switch as a function of voltage measured at each of the first and second batteries.

10. (Previously Amended) The power source of claim 2 wherein the selection module is further configured to control the switch to couple one of the first and second batteries having the highest voltage to the load.

11. (Currently Amended) A power source, comprising:  
first and second batteries; and  
means for operating each of the first and second batteries in a pulse current discharge mode while supplying continuous current to a load when no voltage differential exists between the first and second batteries.

12. (Original) The power source of claim 11 wherein the means for operating each of the first and second batteries in a pulse discharge mode comprises a first switch configured to intermittently couple to the first battery to the load, a second switch configured to intermittently couple the second battery to the load, and means for controlling the first and second switches.

13. (Original) The power source of claim 12 wherein the means for operating each of the first and second batteries in a pulse discharge mode further comprises means for measuring the current supplied to the load, the means for controlling the first and second switches being responsive to the measured current.

14. (Original) The power source of claim 12 wherein the means for controlling the first and second switches is configured to couple the first battery to the load before removing the second battery from the load.

15. (Original) The power source of claim 12 wherein the means for controlling the first and second switches is responsive to voltage measured at each of the first and second batteries.

Claims 16-29. (Cancelled).

30. (Currently Amended) A wireless communications device, comprising:  
a processor configured to support wireless communications, the processor being further configured to operate in a traffic state or an idle state;  
first and second batteries; and  
a power management module configured to operate each of the first and second batteries in a pulse current discharge mode while supplying continuous current to the processor in response to the wireless communications device being operated in the traffic state.

31. (Original) The wireless communications device of claim 30 wherein the power management module comprises a switch control module, and a switch configured to intermittently couple the first and second batteries to the processor under control of the switch control module.

32. (Original) The wireless communications device of claim 31 wherein the switch comprises a first switch configured to intermittently couple the first battery to the processor under control of the switch control module, and a second switch configured to intermittently couple the second battery to the processor under control of the switch control module.

33. (Original) The wireless communications device of claim 32 wherein the first and second switches each comprises a field effect transistor.

34. (Cancelled).

35. (Currently Amended) The wireless communications device of claim 30 ~~34~~ wherein the power management module is further configured to continuously couple ~~switch control module~~ is further configured to control the switch such that the first and second batteries ~~are continuously coupled~~ to the processor in response to ~~if~~ the processor being operated ~~is~~ in the idle state.

36. (Cancelled).

37. (Currently Amended) The wireless communications device of claim 30 ~~34~~ wherein the power ~~control~~ management module is further configured to determine the processor state as a function of the current supplied to the processor.

38. (Original) The wireless communications device of claim 30 wherein the switch control module is further configured to control the switch as a function of voltage measured at each of the first and second batteries.

39. (Original) The wireless communications device of claim 38 wherein the selection module is further configured to control the switch to couple one of the first and second batteries having the highest voltage to the load.

40. (New) The power source of claim 1 wherein the power management module is further configured to operate each of the first and second batteries in a pulse current discharge mode while supplying continuous current to a load when a voltage differential exists between the first and second batteries.

41. (New) A power source, comprising:  
first and second batteries; and  
a power management module configured to operate each of the first and second batteries in a pulse current discharge mode while supplying continuous current to a load in response to the current required by the load exceeding a threshold.

42. (New) The power source of claim 41 wherein the power management module comprises a switch control module, and a switch configured to intermittently couple the first and second batteries to the load under control of the switch control module.

43. (New) The power source of claim 42 wherein the switch comprises a first switch configured to intermittently couple the first battery to the load under control of the switch control module, and a second switch configured to intermittently couple the second battery to the load under control of the switch control module.

44. (New) The power source of claim 43 wherein the first and second switches each comprises a field effect transistor.

45. (New) The power source of claim 42 wherein the switch control module is further configured to control the switch such that the first battery is coupled to the load before removing the second battery from the load.

46. (New) The power source of claim 42 wherein the switch control module is further configured to control the switch as a function of voltage measured at each of the first and second batteries.

47. (New) The power source of claim 42 wherein the selection module is further configured to control the switch to couple one of the first and second batteries having the highest voltage to the load.

48. (New) The power source of claim 41 wherein the power management module is further configured to continuously couple the first and second batteries to the load in response to the current required by the load being below a threshold.